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DUE DATE:

OMB No.

REPORT FOR CALENDAR YR 2002

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUSFORM **MA331A**

CURRENT INDUSTRIAL REPORTS

ANNUAL REPORT OF

IRON AND STEEL FOUNDRIES

The 8-digit number that appears above indicates that the Office of Management and Budget has approved this survey. If that number is not displayed, do not complete this form. YOUR RESPONSE IS REQUIRED BY LAW (Title 13, United States Code). By section 9 of the same law, YOUR REPORT IS CONFIDENTIAL. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this establishment's report,
please refer to the 11 digit Identification Number (ID)

If you have questions regarding this report form please contact:
BRENDA CAMPBELL EXT6
1{800}201-4647

EMPLOYER IDENTIFICATION (EI) NUMBER. Identification number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941) (Enter if not shown, correct if wrong.)

223044511

CONTACT PERSON (Enter information if not shown, correct if wrong.)

Name ATTN: CONTROLLER

Area code 860 Number 445-3127

Fax number {860} 448-1856

(Please correct any error in name and address including ZIP Code)

PART I FOR EACH ITEM LISTED BELOW, ENTER FIGURES OR "0" for current period. (The figures shown in the shaded areas were reported for the previous two periods.) PLEASE REFER TO THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT FORM.

| Item (Product code - Description) | Item code | Report period | SHIPMENTS | | For own use Quantity {Sh.tons} | {Do not report imported or purchased products on which your company performed no further fabrication or significant assembly} | | |
|--|--------------|------------------|-----------------------------------|--------------------------------|---|---|---|---|
| | | | -----For Quantity {Sh.tons} | sale----- Value {\$1000} | | | | |
| DUCTILE IRON CASTINGS | | | 1 | 2 | 3 | 4 | 5 | 6 |
| | | | | | | | | |
| | | | | | | | | |
| 3315111201-Ductile iron pressure pipe: under 14 inch {inside diameter} | 1022 | 2002 | | XXXXX | XXXXX | | | |
| | | 2001 | | XXXXX | XXXXX | | | |
| | | 2000 | | XXXXX | XXXXX | | | |
| 3315111107-Ductile iron pressure pipe: 14 to 24 inch | 1023 | 2002 | | XXXXX | XXXXX | | | |
| | | 2001 | | XXXXX | XXXXX | | | |
| | | 2000 | | XXXXX | XXXXX | | | |
| 3315111108-Ductile iron pressure pipe: 25 inch and over | 1025 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |

* Figures not received when form was prepared. PLEASE ENTER, if not previously submitted.

CURRENT INDUSTRIAL REPORTS - Continued

PART I - Continued

| Item (Product code - Description) | Item code | Report period | SHIPMENTS | | For own use | {Do not report imported or purchased products on which your company performed no further fabrication or signi- ficant assembly} | | |
|---|--------------|------------------|-----------------------|-------------------|-----------------------|--|---|---|
| | | | -----For sale----- | | | | | |
| | | | Quantity {Sh.tons} | Value {\$1000} | Quantity {Sh.tons} | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 |
| 331511111-Ductile iron fittings: under 14 inch {inside diameter} | 1026 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 331511117-Ductile iron fittings: 14 to 24 inch | 1027 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 331511118-Ductile iron fittings: 25 inch and over | 1029 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315113206-Construction & utility castings {manholes, grates, hydrants, etc., excl. pipe & fittings} | 1035 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315113101-Automotive uses | 1037 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315113216-Machinery uses | 1039 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315113221-Other ductile iron castings, except pressure pipe & fittings & construction castings | 1041 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| X X X -TOTAL ductile iron castings {sum of codes 1022-1041} | 1095 | 2002 | | | | | | |
| | | 2001 | | | | | | |
| | | 2000 | | | | | | |
| GRAY IRON CASTINGS | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 331511E200-Molds for heavy steel ingots | 1111 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |

CURRENT INDUSTRIAL REPORTS - Continued

PART I - Continued

| Item (Product code - Description) | Item code | Report period | SHIPMENTS | | For own use Quantity {Sh.tons} | {Do not report imported or purchased products on which your company performed no further fabrication or signi- ficant assembly} | | |
|--|--------------|------------------|---|-------------------|---|--|---|---|
| | | | -----For sale----- Quantity {Sh.tons} | Value {\$1000} | | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 |
| 3315115121-Gray iron pressure pipe & fittings under 14 inch {inside diameter} | 1233 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315115125-Gray iron pressure pipe & fittings 14 inch & over {inside diameter} | 1253 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315117114-Gray iron soil pipe | 1313 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315117133-Gray iron soil pipe fittings | 1315 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315119206-Automotive uses | 1415 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315119111-Construction & utility castings {manholes, grates, hydrants, etc., ex- cluding pipe & fittings} | 1435 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315119116-All other gray iron castings {incl. white} ex. pressure & soil pipe & fittings & const. castings | 1471 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| X X X -TOTAL gray iron castings {sum of codes 1111-1471} | 1495 | 2002 | | | | | | |
| | | 2001 | | | | | | |
| | | 2000 | | | | | | |
| 331511A100-Malleable castings, standard | 2021 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 331511C300-Malleable castings, pearlitic | 2031 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |

CURRENT INDUSTRIAL REPORTS - Continued

PART I - Continued

| Item (Product code - Description) | Item code | Report period | SHIPMENTS | | For own use Quantity {Sh.tons} | {Do not report imported or purchased products on which your company performed no further fabrication or signi- ficant assembly} | | |
|---|--------------|------------------|---|-------------------|---|--|---|---|
| | | | -----For sale----- Quantity {Sh.tons} | Value {\$1000} | | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 |
| X X X -TOTAL malleable castings {sum of codes 2021 and 2031} | 2095 | 2002 | | | | | | |
| | | 2001 | | | | | | |
| | | 2000 | | | | | | |
| STEEL CASTINGS {except investment} | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3315131102-Carbon steel railway specialties: side frames, bolsters, etc. {see manual} | 3010 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315131103-Other carbon steel railway & transit rolling stock castings | 3021 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315131215-Other carbon steel castings, include rolls for rolling mills | 3031 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315135101-Alloy steel except high alloy - railway specialties | 3051 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315135113-Other alloy steel castings except high alloy, incl. rolls for rolling mills | 3061 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315133113-High alloy steel castings {see instruction manual} | 3071 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| X X X -TOTAL steel castings {sum of codes 3010 thru 3071} | 3095 | 2002 | | | | | | |
| | | 2001 | | | | | | |
| | | 2000 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

PART I - Continued

| Item (Product code - Description) | Item code | Report period | SHIPMENTS | | For own use Quantity {Pounds} | | | |
|---|--------------|------------------|----------------------|------------|--|---|---|---|
| | | | For sale | Value | | | | |
| | | | Quantity {Pounds} | { \$1000 } | | | | |
| 3315120101-Steel investment castings: carbon, including low alloy {report in lbs.} | 4011 | 2002 | 1 | 2 XXXXX | 3 | 4 | 5 | 6 |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| 3315120106-Steel investment castings: alloy, including stainless {report in lbs.} | 4051 | 2002 | | XXXXX | | | | |
| | | 2001 | | XXXXX | | | | |
| | | 2000 | | XXXXX | | | | |
| X X X -TOTAL steel invest- ment castings {sum of codes 4011 and 4051} {report in lbs.} | 4095 | 2002 | | | | | | |
| | | 2001 | | | | | | |
| | | 2000 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

If all your items are not listed, please use additional lines or a blank sheet of paper.

PART II Has there been any change in the ownership or operation of this establishment during this period?

☐ Yes - Indicate type of change below. ☐ No - Skip to Part III.

| | | | |
|--|-----------------|--|----------------|
| | Name of company | Address (Number and street, city, State, ZIP Code) | Date of change |
| A. <input type="checkbox"/> Purchased from | | | |
| B. <input type="checkbox"/> Sold to | | | |
| C. <input type="checkbox"/> Plant discontinued all operations | Date | | |
| D. <input type="checkbox"/> Plant operations no longer covered by this survey - Describe in "Remarks" the products currently produced. | | | |
| E. <input type="checkbox"/> Reorganized - Describe in "Remarks;" e.g., partnership change or change in corporate status. | | | |

PART III Do the figures shown on this report and on your last report cover the identical establishments?

☐ Yes ☐ No - Indicate reasons for difference in "Remarks."

PART IV Remarks**PART V CERTIFICATION** - This report is substantially accurate and has been prepared in accordance with instructions.

| | | |
|----------------------------------|-------|------|
| Signature of authorized official | Title | Date |
|----------------------------------|-------|------|

Complete and return this form in the
envelope provided or to:

Bureau of the Census
1201 East Tenth Street
Jeffersonville, IN 47132

NOTE: Please make a photocopy of this for your records.

MA331A — IRON AND STEEL FOUNDRIES SHIPMENTS

DEFINITIONS AND SPECIAL INSTRUCTIONS

1. Scope of survey

This survey covers producers of ferrous castings. This includes producers of ferrous castings "for own use" as well as for commercial sale.

2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact listed on the report form or write to the U.S. Census Bureau for additional forms.

a. Quantity and value of shipments

For the purpose of this report, the weight of castings reported should be the weight of the castings before machining. The removal of gates, users, or sprues, trumbling, dipping, and sandblasting does not constitute machining operations.

If you operate a machine shop at the same location as your foundry and the before-machining weight of castings is not available from book records, your best estimates are acceptable.

b. Shipments

Shipments for sale — Castings shipped to the trade.

Column (1) — Report the weight in short tons (2,000 pounds) of each type of casting shipped to the trade during the year, except investment castings which should be reported in pounds.

Column (2) — Report shipments in thousands of dollars for only item codes 1095, 1495, 2095, 3095, and 4095. These codes are for the total of each metal group and are for shipment to the trade during the year.

Column (3), shipments for own use — Report the weight in short tons (2,000 pounds), except investment castings which should be reported in pounds. Each type of casting shipped during the year for use by your company, or an affiliate, subsidiary, or parent company should be reported. Also includes castings produced and consumed at the same location in the production of finished products. The weight of castings produced in your foundry may be used as the basis for an estimate.

Include shipments to other manufacturers but exclude shipments received by you and reshipped without further processing.

3. Definitions

Compacted graphite is characterized by interconnecting graphite intermediate in shape between the flake graphite of gray iron and the spheroidal graphite of ductile iron.

All other gray iron castings — Include abrasives, rolls, chilled iron railroad car wheels, grinding balls, semisteel castings, and pressure and soil pipe fittings that require machining, threading, or assembling.

Cast iron pressure pipe and fittings — Report your tonnage of pipe according to the specified sizes of the inside diameter of the pipe. In allocating fittings to the three size groupings, the largest diameter of the fitting should be used. Include only those fittings that do not require any machining, threading, or assembling.

Pearlitic malleable — Report tonnage of pearlitic malleable castings pursuant to A.S.T.M. (American Society for Testing Materials) Designation, A 220–76.

Alloy steel — Alloy steel is steel which contains alloying elements in excess of the maximum standard ranges of the American Iron and Steel Institute as follows:

| | | |
|-----------|-------|--------------------|
| Manganese | | in excess of 1.65% |
| Silicon | | in excess of .60% |
| Copper | | in excess of .40% |
| Chromium | | in excess of .30% |

| | | |
|--|---|---|
| Aluminum, cobalt, niobium, molybdenum, nickel, titanium, tungsten, vanadium, zirconium, or any other alloying element | } | Any amount added to obtain a desired alloying effect |
| | | |

High alloy steel castings — High alloy steel castings means heat and/or corrosion-resistant steel castings containing 8 percent or more of chromium or nickel or both with or without molybdenum or other elements.

Railway specialties — Railway specialties and related items. Report as follows:

| Type of casting | Code numbers | |
|---|--------------|-------------|
| | Carbon steel | Alloy steel |
| Side frames, bolsters, couplers, yokes, draft gear, snubbers (self-contained unit type), hopper doors and frames, and brake beams | 3010 | 3051 |
| Other railway and transit rolling stock castings | 3021 | 3071 |

REFERENCE LIST

FORM **MA331A**

IRON AND STEEL FOUNDRIES SHIPMENTS

| Product code | Item code | Item description |
|--------------|-------------|---|
| | | DUCTILE IRON CASTINGS <i>(Report quantity in short tons)</i> |
| 3315111201 | 1022 | Ductile iron pressure pipe ¹ Under 14" (inside diameter) |
| 3315111107 | 1023 | 14" to 24" |
| 3315111108 | 1025 | 25" and over |
| 3315111111 | 1026 | Ductile iron fitting ² Under 14" (inside diameter) |
| 3315111117 | 1027 | 14" to 24" |
| 3315111118 | 1029 | 25" and over |
| 3315113206 | 1035 | Construction and utility castings (manholes, grates, hydrants, etc., excluding pipe and fittings) |
| 3315113101 | 1037 | Automotive uses |
| 3315113216 | 1039 | Machinery uses |
| 3315113221 | 1041 | Other ductile iron castings, except pressure pipe and fittings and construction castings |
| XXX | 1095 | TOTAL |
| | | GRAY IRON CASTINGS <i>(Report quantity in short tons)</i> |
| 331511E200 | 1111 | Molds for heavy ingots |
| 3315115121 | 1233 | Gray iron pressure pipe and fittings ^{1 2} Under 14" (inside diameter) |
| 3315115125 | 1253 | 14" and over (inside diameter) |
| 3315117114 | 1313 | Gray iron soil pipe |
| 3315117133 | 1315 | Gray iron soil pipe fittings ² |
| 3315119206 | 1415 | Automotive uses |
| 3315119111 | 1435 | Construction and utility castings (manholes, grates, hydrants, etc., excluding pipe and fittings) |
| 3315119116 | 1471 | All other gray iron castings (including white iron) except pressure and soil pipe and fittings, and construction castings |
| XXX | 1495 | TOTAL |
| | | MALLEABLE CASTINGS <i>(Report quantity in short tons)</i> |
| 331511A100 | 2021 | Standard |
| 331511C300 | 2031 | Pearlitic ¹ |
| XXX | 2095 | TOTAL |

¹ See instructions in Definitions and Special Instructions section.

² Include as fittings only those that do not require machining, threading, or assembling.

REFERENCE LIST — Continued

| FORM MA331A | | |
|--------------------|-----------|---|
| Product code | Item code | Item description |
| | | STEEL CASTINGS (Except Investment) (Report in short tons) |
| | | Carbon Steel railway specialties ¹ |
| 3315131102 | 3010 | Side frames, bolsters, couplers, yokes, draft gear, snubbers (self-contained unit type), hopper doors and frames, and brake beams |
| 3315131103 | 3021 | Other carbon railway and transit rolling stock castings |
| 3315131215 | 3031 | Other carbon steel castings, including rolls for rolling mills |
| | | Alloy steel except high alloy ¹ |
| 3315135101 | 3051 | Railway specialties |
| 3315135113 | 3061 | Other alloy steel castings, including rolls for rolling mills |
| 3315133113 | 3071 | High alloy steel castings ¹ |
| XXX | 3095 | TOTAL |
| | | STEEL INVESTMENT CASTINGS (Report in pounds) |
| 3315120101 | 4011 | Carbon, including low alloy |
| 3315120106 | 4051 | Alloy, including stainless |
| XXX | 4095 | TOTAL |

¹ See instructions in Definitions and Special Instructions section.

² Include as fittings only those that do not require machining, threading, or assembling.